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TITLE: IMAGE INFORMATION RECORDING AND READING METHOD

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ABSTRACT:

PURPOSE: To satisfactorily read image information by converting a stimulated phosphorescent light to easily handleable wavelength by a wavelength converting medium, thereafter, converting it to an electric signal, at the time of reading an image recorded by radiating a radiant ray.

CONSTITUTION: X rays 2 are radiated to an object to be photographed 1 such as the human body, and an X-ray transmission image is recorded as fluorescent stored energy to stimuable phosphor panel 5. Also, in a read part, a light beam from a light source 6 is deflected 7, and the stimuable phosphor panel 5 is scanned. The stimulated phosphorescent light generated from its panel 5 is converted to easily handleable wavelength by a rod-like photoconversion conduction body 9. Light of its wavelength is brought to a photoelectric conversion by a photomultiplier 11, and its electric signal is processed, by

which a read image is obtained. In this regard, the light conversion conduction body 9 converts a light beam which is made incident from the side face, to a light beam of other wavelength, and generates it from the end face, therefore, the stimulated phosphorescent light from the panel 5 is converged efficiently. Accordingly, said light is converted to easily handleable wavelength by executing a wavelength conversion, therefore, the cost of an optical system is reduced, and the photoelectric converting element can be optimized.

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